

AMENDMENTS TO CLAIMS

Claims 1-23 (Canceled)

24. (Currently Amended) A compound of formula R1-R2-R3, wherein:

R1 is a hexacyclen;

R3 is a β -nicotinamide adenine dinucleotide; and

R2 is a moiety that links R1 and R3, wherein said moiety is a flexible linker, said flexible linker is a polyglycine moiety containing between 1 and 3 glycines.

25. (Cancelled)

26. (Currently Amended) A compound of the formula R1-R2-R3, wherein:

R1 comprises a moiety that binds to a hemoglobin binding site on a cytochrome b₅ at one or more amino acids selected from the group consisting of H26, E43, E44, E48, A54, D60, H80 and A88, wherein said moiety is ~~a polyamine~~ hexacyclen;

R3 comprises a moiety that binds to the cytochrome b₅ at one or more amino acids selected from the group consisting of I24, L25, H26 and H27, wherein said moiety is ~~ATP or an ATP analog~~ β -nicotinamide adenine dinucleotide; and

R2 comprises a moiety that links R1 and R3, wherein said moiety is a flexible linker, said flexible linker is a polyglycine moiety containing between 1 and 3 glycines.

27. to 34. (Cancelled).

35. A pharmaceutical composition comprising the compound of claim 24 or a pharmaceutically acceptable salt thereof.